



## Exhibit A

Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11225	Apparatus And Method For Compressing Information	Shapiro, J. M.	Granted	06-517092	1/21/1994	3208487	7/13/2001	JP
11225	Apparatus And Method For Compressing Information	Shapiro, J. M.	Granted	95-702914	1/21/1994	303947	8/16/2001	KR
11225	Compressing Information of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	69421690	11/17/1999	DE
11225	Compressing Information of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	0680643	11/17/1999	FR
11225	Compressing Information of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	0680643	11/17/1999	GB
11225	Compressing Information of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	0680643	11/17/1999	IT

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11225	Compressing Information Of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	0680643	11/17/1999	NL
11225	Compressing Information Of Indices	Shapiro, J. M.	Granted	94908589.8	1/21/1994	0680643	11/17/1999	EP
11455	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Granted	97-701379	9/5/1995	378636	3/20/2003	KR
11455	Method And Apparatus For Global-To-Local Block Motion Estimation	Ju, C. H.	Granted	95831013.7	9/5/1995	69524235.0	11/28/2001	DE
11455	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Granted	95831013.7	9/5/1995	0779011	11/28/2001	GB
11455	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Pending	08-508577	9/5/1995			JP
11455	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Granted	95831013.7	9/5/1995	0779011	11/28/2001	EP

Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11455	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Granted	95931013.7	9/5/1995	0779011	11/28/2001	FR
11455 A	Method And Apparatus For Global To Local Block Motion Estimation	Ju, C. H.	Granted	08/612005	3/4/1996	5790206	8/4/1998	US
11615	Multiple Modulation Format Television Signal Receiver System	Jaffe, S. T. Strolle, C. H.	Granted	08/721867	9/27/1996	6005640	12/21/1999	US
11615	Multiple Modulation Format Television Signal Receiver System	Jaffe, S. T. Strolle, C. H.	Granted	97945485.7	9/25/1997	0828540	1/2/2003	EP
11615	Multiple Modulation Format Television Signal Receiver System	Jaffe, S. T. Strolle, C. H.	Pending	99-7002611	9/25/1997			KR
11615	Multiple Modulation Format Television Signal Receiver System	Jaffe, S. T. Strolle, C. H.	Pending	10-516018	9/25/1997			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11615	Multiple Modulation Format Television Signal Receiver System	Jaffe, S. T. Strolle, C. H.	Granted	97945485.7	9/25/1997	69718182.0	1/2/2003	DE
11730	Overlapping Block Zerotree Wavelet Image Coder	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	96938640.8	10/23/1996	69633129.2	8/11/2004	DE
11730	Overlapping Block Zerotree Wavelet Image Coder	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	96938640.8	10/23/1996	0857392	8/11/2004	FR
11730	Overlapping Block Zerotree Wavelet Image Coder	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	96938640.8	10/23/1996	0857392	8/11/2004	GB
11730	Overlapping Block Zerotree Wavelet Image Coder	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Pending	09-516771	10/23/1996			JP
11730	Overlapping Block Zerotree Wavelet Image Coder	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	96938640.8	10/23/1996	0857392	8/11/2004	EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11730	Low Bit Rate Video Encoder Using Overlapping Block Motion Compensation And Zero-tree Wavelet Coding	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	08/735871	10/23/1996	5764805	6/9/1998	US
11730	Overlapping Block Zero-tree Wavelet Image Codec	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	98-703032	10/23/1996	0308627	8/30/2001	KR
11733	A Very Low Bit Rate Video Coding/Decoding Method And Apparatus	Reitmeier, G. A. Zhang, Y-Q.	Granted	08/884666	6/27/1997	6084912	7/4/2000	US
11735	Method And Apparatus For Resizing Images Using The Discrete Cosine Transform	Martucci, S. A.	Granted	08/728459	10/10/1996	5845015	12/1/1998	US
11735	Method And Apparatus For Resizing Images Using The Discrete Cosine Transform	Martucci, S. A.	Published	98334121.3	10/15/1996			EP
11735	Method And Apparatus For Resizing Images Using The Discrete Cosine Transform	Martucci, S. A.	Granted	09-515136	10/15/1996	3266273	1/11/2002	JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11735	Method And Apparatus For Resizing Images Using The Discrete Cosine Transform	Martucci, S. A.	Granted	98-702639	10/15/1996	349416	8/7/2002	KR
11735 A	Method And Apparatus For Resizing Images Using The Discrete Cosine Transform	Martucci, S. A.	Granted	09/201531	11/30/1998	6263119	7/17/2001	US
11758	Data Detection For Partial Response Channels	Jaffe, S. T. Liu, T. Strolle, C. H.	Granted	08/555608	11/29/1995	5757855	5/26/1998	US
11758	Data Detection For Partial Response Channels	Jaffe, S. T. Liu, T. Strolle, C. H.	Published	96940814.5	11/29/1996			EP
11758	Data Detection For Partial Response Channels	Jaffe, S. T. Liu, T. Strolle, C. H.	Appealed	09-520547	11/29/1996			JP
11795	Method And Apparatus For Detecting Scene Cuts In A Block-Based Video Coding System	Kuchibhotla, P.	Published	97907683.3	2/26/1997			EP



Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11795	Method And Apparatus For Detecting Scene Cuts In A Block-Based Video Coding System	Kuchibhotla, P.	Pending	09-530283	2/26/1997			JP
11795	Method And Apparatus For Detecting Scene-Cuts In A Block-Based Video Coding System	Kuchibhotla, P.	Granted	08/606613	2/26/1996	5724100	3/3/1998	US
11795	Method And Apparatus For Detecting Scene Cuts In A Block-Based Video Coding System	Kuchibhotla, P.	Granted	98-706667	2/26/1997	382676	4/21/2003	KR
11817	Dynamic Coding Rate Control In A Block-Based Video Coding System	Kuchibhotla, P.	Granted	08/606622	2/26/1996	5731835	3/24/1998	US
11817	Dynamic Coding Rate Control In A Block-Based Video Coding System	Kuchibhotla, P.	Published	97907684.1	2/26/1997			EP
11817	Dynamic Coding Rate Control In A Block-Based Video Coding System	Kuchibhotla, P.	Pending	09-530284	2/26/1997			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11817	Dynamic Coding Rate Control In A Block-Based Video Coding System	Kuchibhotla, P.	Granted	98-706666	2/26/1997	366426	12/16/2002	KR
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T-H. Chien, M. Kwok, W. Sun, H.	Granted	9636762.2	10/25/1996	0857393	12/18/2002	NL
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T-H. Chien, M. Kwok, W. Sun, H-C.	Granted	9636762.2	10/25/1996	0857393	12/18/2002	EP
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T-H. Chien, M. Kwok, W. Sun, H-C.	Granted	96-702963	10/25/1996	384327	5/3/2003	KR
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T-H. Chien, M. Kwok, W. Sun, H-C.	Pending	09-516689	10/25/1996			JP

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11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T.-H. Chien, M. Kwok, W. Sun, H.	Granted	96936762.2	10/25/1996	696255014	12/18/2002	DE
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T.-H. Chien, M. Kwok, W. Sun, H.	Granted	96936762.2	10/25/1996	0857393	12/18/2002	FR
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T.-H. Chien, M. Kwok, W. Sun, H.	Granted	96936762.2	10/25/1996	0857393	12/18/2002	GB
11819	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Chiang, T.-H. Chien, M. Kwok, W. Sun, H.	Granted	96936762.2	10/25/1996	0857393	12/18/2002	IT
11819 A	Apparatus And Method For Selecting A Coding Mode In A Block-Based Coding System	Sun, H.-C.	Granted	09/549244	7/7/1997	6192081	2/20/2001	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11835	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Chien, M. Kwok, W. Sun, H-C.	Pending	09-516845	10/24/1996			JP
11835	Apparatus And Method For Optimizing The Rate Control In A Block-Based Coding System	Chiang, T-H. Zhang, Y-Q.	Granted	08/738228	10/23/1996	6160846	12/12/2000	US
11898	Apparatus And Method For Quadtree Based Variable Block Size Motion Estimation	Chiang, T-H. Lee, J-W. Xiong, Z. Zhang, Y-Q.	Granted	08/735869	10/23/1996	6084908	7/4/2000	US
11898	Apparatus And Method For Quadtree Based Variable Block Size Motion Estimation	Lee, J-W. Chiang, T-H. Xiong, Z. Zhang, Y-Q.	Pending	09-518195	10/23/1996			JP
11898 A	Apparatus And Method For Quadtree Based Variable Block Size Motion Estimation	Lee, J-W.	Pending	03-374710	11/4/2003			JP

Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12008	Apparatus and Method for Optimizing Encoding And Performing Automated Steerable Image Compression In An Image Coding System Using A Perceptual Metric	Lee, J-W. Peterson, H. A.	Granted	08/025474	3/28/1997	6529631	3/4/2003	US
12008	Apparatus and Method for Optimizing Encoding and Performing Automated Steerable Image Compression In An Image Coding System Using A Perceptual Metric	Lee, J-W	Published	97917139.4	3/28/1997			EP
12097	Content-Adaptive Compression Encoding	Reitmeier, G. A. Stiller, T. M. Tinker, M. Wine, C. M.	Granted	09/033451	5/22/1998	6477201	11/5/2002	US
12130	Set Top Terminal For An Interactive Information Distribution System	Anderson Jr., B. J. Drasner, S. L. Greenberg, A. L. Lamont, N.	Granted	08/950505	9/16/1997	6226794	5/1/2001	US
12191	Fixed Frequency Source Timing Processor Method And Apparatus	Birks, D. A.	Granted	08/856454	5/14/1997	6192074	2/20/2001	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12193	Apparatus And Method For Encoding ZeroTrees Generated By A Wavelet-Based Coding Technique	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Published	96936763	10/25/1996			EP
12193	Apparatus And Method For Encoding ZeroTrees Generated By A Wavelet-Based Coding Technique	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	09-516690	10/25/1996	3563740	6/11/2004	JP
12193	Apparatus And Method For Encoding ZeroTrees Generated By A Wavelet-Based Coding Technique	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	08/736114	10/24/1996	6483946	11/19/2002	US
12193	Apparatus And Method For Encoding ZeroTrees Generated By A Wavelet-Based Coding Technique	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	98-703813	10/25/1996	0296066	5/7/2001	KR
12193 A	Vector Wavelet Organization	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Granted	09/177219	10/22/1998	6298167	10/2/2001	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12193 A	Apparatus And Method For Encoding ZeroTrees Generated By A Wavelet-Based Coding Technique	Martucci, S. A. Sodagar, I. Zhang, Y-Q.	Pending	03-173649	6/18/2003			JP
12213	Format And Frame Rate Conversion For Display Of 24 Hz Source Video	Reitmeier, G. A.	Published	98964925.6	12/31/1998			EP
12213	Format And Frame Rate Conversion For Display Of 24 Hz Source Video	Reitmeier, G. A.	Pending	00-527089	12/31/1998			JP
12213 A	Format And Frame Rate Conversion For Display Of 24 Hz Source Video	Reitmeier, G. A.	Granted	09/515058	2/28/2000	6549240	4/15/2003	US
12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Lee, H-J. Sodagar, I.	Granted	09/002251	12/31/1997	6157746	12/5/2000	US
12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Sodagar, I. Lee, H-J.	Pending	10-536729	2/11/1998			JP

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12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Sodagar, I. Lee, H.-J.	Pending	99-7007294	2/11/1998			KR
12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Sodagar, I. Lee, H.-J.	Granted	98802489.6	2/11/1998	ZL98802489	2/11/1998	CN
12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Lee, H.-J. Sodagar, I.	Granted	87101873	2/11/1998	NI-120852	10/1/2000	TW
12234	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Sodagar, I. Lee, H.-J.	Published	98908530.3	2/11/1998			EP
12234 A	Apparatus And Method For Encoding Wavelet Trees Generated By A Wavelet-Based Coding Method	Sodagar, I. Lee, H.-J.	Granted	09/425364	10/22/1999	6298163	10/2/2001	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12234 B	Apparatus And Method For Encoding Wavelet Trees Generated By Backward Predictive Coding Of Wavelet Transformed Coefficients	Sodagar, I. Lee, H.-J	Granted	09/425363	10/22/1999	6236758	5/22/2001	US
12258	Method And Apparatus For Providing Control Channel Communications For An Information Distribution System	Anderson Jr., B. J. Liu, T. Meyer, T. J.	Granted	08/718075	9/17/1996	5886414	4/20/1998	US
12286	Method And Apparatus For Performing Hierarchical Motion Estimation Using Nonlinear Pyramid	Chiang, T.-H. Song, X. Zhang, Y.-Q.	Pending	99-7011184	5/29/1998			KR
12286	Method And Apparatus For Performing Hierarchical Motion Estimation Using Nonlinear Pyramid	Chiang, T.-H. Song, X. Zhang, Y.-Q.	Pending	11-500942	5/29/1998			JP
12286	Method And Apparatus For Performing Hierarchical Motion Estimation Using Nonlinear Pyramid	Chiang, T.-H. Song, X. Zhang, Y.-Q.	Published	98924990.9	5/29/1998			EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12286	Method And Apparatus For Performing Hierarchical Motion Estimation Using Nonlinear Pyramid	Chiang, T-H. Song, X. Zhang, Y-Q.	Granted	09/066838	5/29/1998	6148027	11/14/2000	US
12318	Universal Network Interface Module	Jaffe, S. T. Meyer, W. E. Strolle, C. H.	Granted	09/036925	3/9/1998	6169767	1/2/2001	US
12374	Channel Selection Methodology In An ATSC/NTSC Television Receiver	Reitmeier, G. A.	Granted	09/092776	6/5/1998	6115080	9/5/2000	US
12374	Channel Selection Methodology In An ATSC/NTSC Television Receiver	Reitmeier, G. A.	Granted	88/109249	6/4/1999	NI-125884	1/1/2001	TW
12374	Channel Selection Methodology In An ATSC/NTSC Television Receiver	Reitmeier, G. A.	Pending	00-552846	6/3/1999			JP
12397	Detection Of Transitions In Video Sequences	Golin, S. J.	Pending	2311662	12/22/1998			CA

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12397	Detection Of Transitions In Video Sequences	Golin, S. J.	Pending	00-526044	12/22/1998			JP
12397	Detection Of Transitions In Video Sequences	Golin, S. J.	Published	98964857.1	12/22/1998			EP
12397	Detection Of Transitions In Video Sequences	Golin, S. J.	Granted	09/086373	5/28/1998	5990980	11/23/1999	US
12397	Detection Of Transitions In Video Sequences	Golin, S. J.	Pending	00-7007061	12/22/1998			KR
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	09/105730	6/26/1998	6563549	5/13/2003	US
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	88105368	4/3/1999	NI-119750	9/1/2000	TW

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Pending	00-542929	4/2/1999			JP
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	99915257.2	4/2/1999	1068735	10/13/2004	EP
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	99915257.2	4/2/1999		10/13/2004	DE
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	99915257.2	4/2/1999	1068735	10/13/2004	FR
12411	Method And Apparatus For Adaptively Encoding An Information Stream	Sethuraman, S.	Granted	99915257.2	4/2/1999	1068735	10/13/2004	GB
12414	Method And Apparatus For Performing Adaptive Encoding Rate Control Of A Video Information Stream Including 3:2 Pull-Down Video Information	Sethuraman, S.	Granted	09/151425	9/11/1998	6167088	12/26/2000	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12414	Method And Apparatus For Performing Adaptive Encoding Rate Control Of A Video Information Stream Including 3:2 Pull-Down Video Information	Sethuraman, S.	Pending	00-542928	4/2/1999			JP
12414	Method And Apparatus For Performing Adaptive Encoding Rate Control Of A Video Information Stream Including 3:2 Pull-Down Video Information	Sethuraman, S.	Published	99916357.9	4/2/1999			EP
12455	Hierarchical Motion Estimation Apparatus And Method Using Variable Block Sizes	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Pending	00-526802	12/31/1998			JP
12455	Apparatus And Method For Employing Many Pyramids With N-Scale Tiling	Chiang, T-H. Krishnamurthy, R. Song, X. Zhang, Y-Q.	Granted	09/106707	6/29/1998	6560371	5/6/2003	US
12455	Hierarchical Motion Estimation Apparatus And Method Using Variable Block Sizes	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Granted	98812749.0	12/31/1998	ZL98812749	10/22/2003	CN

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12455	Hierarchical Motion Estimation Apparatus And Method Using Variable Block Sizes	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Pending	00-7007345	12/31/1998			KR
12455	Hierarchical Motion Estimation Apparatus And Method Using Variable Block Sizes	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Published	98964924.9	12/31/1998			EP
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Granted	09/022349	2/11/1998	6243497	6/5/2001	US
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Granted	87/01963	2/11/1998	NI-105800	8/11/1999	TW
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Pending	99-7007293	2/11/1998			KR
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Granted	98802488.8	2/11/1998	ZI 98802488.	1/30/2004	CN

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Pending	10-538730	2/11/1998			JP
12459	Apparatus And Method For Optimizing The Rate Control In A Coding System	Chiang, T-H. Zhang, Y-Q.	Published	98908531.1	2/11/1998			EP
12466	Method And Apparatus For Recovering Quantized Coefficients	Florencio, D. A. F. Sodagar, I.	Published	98906493.6	2/18/1998			EP
12466	Method And Apparatus For Recovering Quantized Coefficients	Florencio, D. A. F. Sodagar, I.	Pending	10-535991	2/18/1998			JP
12466	Method And Apparatus For Recovering Quantized Coefficients	Florencio, D. A. F. Sodagar, I.	Granted	87102259	2/18/1998	NI-106007	8/11/1999	TW
12466	Method And Apparatus For Recovering Quantized Coefficients	Florencio, D. A. F. Sodagar, I.	Granted	09/024094	2/18/1998	6373894	4/16/2002	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12545	Apparatus And Method For Performing Scalable Hierarchical Motion Estimation	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Published	98812628.1	12/31/1998			CN
12545	Apparatus And Method For Performing Scalable Hierarchical Motion Estimation	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Pending	98864302.8	12/31/1998			EP
12545	Apparatus And Method For Performing Scalable Hierarchical Motion Estimation	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Pending	00-528903	12/31/1998			JP
12545	Apparatus And Method For Performing Scalable Hierarchical Motion Estimation	Chiang, T-H. Song, X. Zhang, Y-Q. Krishnamurthy, R.	Pending	00-7007344	12/31/1998			KR
12545	Apparatus And Method For Performing Scalable Hierarchical Motion Estimation	Chiang, T-H. Krishnamurthy, R. Song, X. Zhang, Y-Q.	Granted	08/106706	6/29/1998	6208632	3/27/2001	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12598	Apparatus And Method For Object-Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J.	Granted	09/094645	6/15/1998	6023296	2/8/2000	US
12598	Apparatus And Method For Object Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J.	Pending	98934312.4	7/9/1998			EP
12598	Apparatus And Method For Object Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J.	Pending	00-502636	7/9/1998			JP
12598	Apparatus And Method For Object Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J.	Allowed	98807064.2	7/9/1998			CN
12598 A	Apparatus And Method For Object-Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J.	Appealed	09/401132	9/22/1999			US
12614	Apparatus And Method For Multiscale Zero-tree Entropy Encoding	Lee, H-J. Sodagar, I. Chai, B-B. Hatrack, P.	Published	98834326.4	7/13/1998			EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12614	Apparatus And Method For Multiscale Zero-tree Entropy Encoding	Lee, H.-J. Sodagar, I. Chai, B.-B. Hatrack, P.	Pending	00-700304	7/13/1998			KR
12614	Apparatus And Method For Multiscale Zero-tree Entropy Encoding	Lee, H.-J. Sodagar, I. Chai, B.-B. Hatrack, P.	Pending	11-508888	7/13/1998			JP
12614	Apparatus And Method For Multiscale Zero-tree Entropy Encoding	Lee, H.-J. Sodagar, I. Chai, B.-B. Hatrack, P.	Granted	09/107544	6/30/1998	6269192	7/31/2001	US
12614	Apparatus And Method For Multiscale Zero-tree Entropy Encoding	Lee, H.-J. Sodagar, I. Chai, B.-B. Hatrack, P.	Published	98808531.3	7/13/1998			CN
12617	Apparatus And Method For Macroblock Based Rate Control In A Coding System	Chiang, T.-H. Lee, H.-J. Zhang, Y.-Q.	Granted	09/099617	6/18/1998	6690833	2/10/2004	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12617	Apparatus And Method For Macroblock Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J. Zhang, Y-Q.	Published	98035565.6	7/9/1998			EP
12617	Apparatus And Method For Macroblock Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J. Zhang, Y-Q.	Pending	00-7000443	7/9/1998			KR
12617	Apparatus And Method For Macroblock Based Rate Control In A Coding System	Chiang, T-H. Lee, H-J. Zhang, Y-Q.	Published	98807140.1	7/9/1998			CN
12625	Apparatus And Method For Selecting A Rate And Distortion Based Coding Mode For A Coding System	Sethuraman, S.	Granted	09001703	12/31/1997	6037987	3/14/2000	US
12626	Apparatus And Method For Employing M-ARY Pyramids To Enhance Feature-Based Classification And Motion Estimation	Krishnamurthy, R. Chiang, T-H. Zhang, Y-Q. Song, X.	Granted	09002258	12/31/1997	6408101	6/18/2002	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12626 A	Method And Apparatus For Estimating Motion Using Block Features Obtained From An M-Ary Pyramid	Krishnamurthy, R. Sethuraman, S.	Granted	09/196072	11/19/1998	6430317	8/6/2002	US
12654	Computational Resource Allocation In An Information Stream Decoder	Florencio, D. A. F. Freeman, S. Reitmeier, G. A.	Granted	09/160729	9/25/1998	6549577	4/15/2003	US
12654	Computational Resource Allocation In An Information Stream Decoder	Florencio, D. A. F. Freeman, S. Reitmeier, G. A.	Published	98951975.6	9/28/1998			EP
12654	Computational Resource Allocation In An Information Stream Decoder	Florencio, D. A. F. Freeman, S. Reitmeier, G. A.	Pending	00-513402	9/28/1998			JP
12660	Multiple Component Compression Encoder Motion Search Method And Apparatus	Reitmeier, G. A.	Granted	09/002295	12/31/1997	5987180	11/16/1999	US
12660	Multiple Component Compression Encoder Motion Search Method And Apparatus	Reitmeier, G. A.	Pending	00-513240	9/28/1998			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12661	Compression Encoder Bit Allocation Utilizing Colometric-Adaptive Weighting As In Flesh-Tone Weighting	Reitmeier, G. A.	Granted	09/001619	12/31/1997	6122400	9/19/2000	US
12669	Format-Responsive Video Processing System	Reitmeier, G. A. Steckler, S. A.	Granted	09/001620	12/31/1997	6057889	5/2/2000	US
12681	Reduced Cost Decoder Using Bitstream Editing For Image Cropping	Hurst, Jr., R. N.	Allowed	09/001199	12/30/1997			US
12681	Reduced Cost Decoder Using Bitstream Editing For Image Cropping	Hurst, Jr., R. N.	Pending	00-527095	12/30/1998			JP
12711	Method And Apparatus For Reducing Memory Requirements For Storing Reference Frames In A Video Decoder	Florencio, D. A. F. Freeman, S.	Granted	09/001201	12/30/1997	5933195	8/3/1999	US
12711	Method And Apparatus For Reducing Memory Requirements For Storing Reference Frames In A Video Decoder	Florencio, D. A. F.	Allowed	9809528.9	9/29/1998	9809528.9	4/21/2004	CN

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12711	Method And Apparatus For Reducing Memory Requirements For Storing Reference Frames In A Video Decoder	Florencio, D. A. F.	Published	98949587.4	9/28/1998			EP
12711	Method And Apparatus For Reducing Memory Requirements For Storing Reference Frames In A Video Decoder	Florencio, D. A. F.	Pending	00-513414	9/28/1998			JP
12711	Method And Apparatus For Reducing Memory Requirements For Storing Reference Frames In A Video Decoder	Florencio, D. A. F.	Pending	00-7003230	9/28/1998			KR
12712	Channel Scanning And Channel Change Latency Reduction In An ATSC Television Receiver	Reitmeier, G. A.	Published	98949588.2	9/28/1998			EP
12712	Channel Scanning And Channel Change Latency Reduction In An ATSC Television Receiver	Reitmeier, G. A.	Granted	08/978018	11/25/1997	6118498	9/12/2000	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12712	Channel Scanning And Channel Change Latency Reduction In An ATSC Television Receiver	Reitmeier, G. A.	Pending	00-513411	9/28/1998			JP
12712	Channel Scanning And Channel Change Latency Reduction In An ATSC Television Receiver	Reitmeier, G. A.	Published	98809290.5	9/28/1998			CN
12713	Synchronized Multiple Format Video Processing Method And Apparatus	Reitmeier, G. A.	Granted	09/001952	12/31/1997	6118486	9/12/2000	US
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	09/160790	9/25/1998	6792149	9/14/2004	US
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	99303309.1	4/28/1999	0955608	7/9/2003	EP
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Pending	11-127360	5/7/1999			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	99303309.1	4/28/1999	69909364.3	7/9/2003	DE
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	99303309.1	4/28/1999	0955608	7/9/2003	FR
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	99303309.1	4/28/1999	0955608	7/9/2003	GB
12759	Method And Apparatus For Resizing An Image Frame Including Field-Mode Encoding	Florencio, D. A. F.	Granted	99303309.1	4/28/1999	0955608	7/9/2003	IT
12828	Method And Apparatus For Adapting Memory Resource Utilization In An Information Stream Decoder	Miller, H. S.	Granted	09/320914	5/27/1999	6633608	10/14/2003	US

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12338	Receiver For Analog And Digital Television Signals	Balaban, A. R. Low, M. L. Fox, E. C.	Granted	09/311252	5/13/1999	6369857	4/9/2002	US
12376	Method And Apparatus For Encoding Video Information	Chiang, T-H. Hatrack, P. Krishnamurthy, R. Sethuraman, S. Song, X. Zhang, Y-Q.	Pending	00-542930	4/5/1999			JP
12376	Method And Apparatus For Encoding Video Information	Chiang, T-H. Hatrack, P. Krishnamurthy, R. Sethuraman, S. Song, X. Zhang, Y-Q.	Granted	09/285582	4/2/1999	6434196	8/13/2002	US
12376	Method And Apparatus For Encoding Video Information	Chiang, T-H. Hatrack, P. Krishnamurthy, R. Sethuraman, S. Song, X. Zhang, Y-Q.	Pending	99916382.7	4/5/1999			EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
12983	Method And Apparatus For Providing Enhanced Viewing And Data Processing Capabilities To A Digital Television System	Jonnalagadda, K. Tinker, M. Chalom, E.	Appealed	09/504628	2/15/2000			US
12990 A	Transcoding Using Block-Based Motion Vectors	Lee, J-W.	Granted	10/180243	6/26/2002	6577767	6/10/2003	US
13009	Information Distribution System Exhibiting Demographic Affinity	Anderson Jr., B. J. Reitmeier, G. A.	Pending	09/183249	10/30/1998			US
13009	Information Distribution System	Anderson Jr., B. J. Reitmeier, G. A.	Published	99304652.3	6/15/1999			EP
13009	Information Distribution System Exhibiting Demographic Affinity	Anderson Jr., B. J. Reitmeier, G. A.	Pending	2273762	6/4/1999			CA
13009	Information Distribution System Exhibiting Demographic Affinity	Anderson Jr., B. J. Reitmeier, G. A.	Granted	88110762	6/25/1999	NI-124697	1/1/2001	TW

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13050	Television Tuner Employing Micro-Electro-Mechanically-Switched Tuning Matrix	Carnisa, R. L. Perlow, S. M. Rosen, A.	Granted	09/206429	12/7/1998	6535722	3/18/2003	US
13050	Television Tuner Employing Micro-Electro-Mechanically-Switched Tuning Matrix	Carnisa, R. L. Perlow, S. M. Rosen, A.	Pending	00-555691	7/9/1999			JP
13053	Method And Apparatus For Converting The Bitrate Of An Encoded Bitstream Without Full Re-Encoding	Florencio, D. A. F.	Granted	09/285760	4/6/1999	6775325	8/10/2004	US
13069	De-Interlacing Of Video Signals	Reitmeier, G. A. Tinker, M.	Granted	09/491709	1/26/2000	6456329	9/24/2002	US
13069	De-Interlacing Of Video Signals	Reitmeier, G. A. Tinker, M.	Published	00928261.7	4/19/2000			EP
13069	De-Interlacing Of Video Signals	Reitmeier, G. A. Tinker, M.	Pending	00-613205	4/19/2000			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13076	Method And Apparatus For Generic Scalable Shape Coding	Li, S.	Published	99931952.8	6/25/1999			EP
13076	Method And Apparatus For Generic Scalable Shape Coding	Li, S.	Pending	00-557621	6/25/1999			JP
13076	Method And Apparatus For Generic Scalable Shape Coding	Li, S.	Appealed	09/312797	5/17/1999			US
13084	Coding Video Dissolves Using Predictive Encoders	Hurst, Jr., R. N.	Granted	09/518920	3/6/2000	6771825	8/3/2004	US
13091	Apparatus And Method For Packetizing Significance-Based Information	Chai, B-B. Sodagar, I.	Granted	09/143780	8/31/1998	6526175	2/25/2003	US
13091	Apparatus And Method For Packetizing Significance-Based Information	Chai, B-B. Sodagar, I.	Pending	99300834.9	6/30/1999			EP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13091	Apparatus And Method For Packetizing Significance-Based Information	Chai, B-B. Sodagar, I.	Pending	00-557583	6/30/1999			JP
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Component	Lee, H-J. Li, S. Sodagar, I.	Granted	09/391058	9/7/1999	6459814	10/1/2002	US
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H-J. Li, S. Sodagar, I.	Granted	99946826.7	9/8/1999	1110179	3/24/2004	EP
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H-J. Li, S. Sodagar, I.	Pending	00-569355	9/8/1999			JP
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H-J. Li, S. Sodagar, I.	Granted	99946826.7	9/8/1999	69915843.5	3/24/2004	DE

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H.-J. Li, S. Sodagar, I.	Granted	99946826.7	9/8/1999	1110179	3/24/2004	FR
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H.-J. Li, S. Sodagar, I.	Granted	99946826.7	9/8/1999	1110179	3/24/2004	NL
13144	Method And Apparatus For Generic Scalable Shape Coding By Deriving Shape Information For Chrominance Components From Luminance Components	Lee, H.-J. Li, S. Sodagar, I.	Granted	99946826.7	9/8/1999	1110179	3/24/2004	GB
13151	Apparatus And Method For Forming A Coding Unit	Chai, B.-B.	Appealed	09/377383	8/19/1999			US
13151	Apparatus And Method For Forming A Coding Unit	Chai, B.-B.	Pending	00-575301	10/1/1999			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13153	Error Concealment For Hierarchical Subband Coding And Decoding	Chai, B-B.	Published	99951381.5	8/20/1999			EP
13153	Error Concealment For Hierarchical Subband Coding And Decoding	Chai, B-B.	Pending	00-567024	8/20/1999			JP
13153	Apparatus And Method For Error Concealment For Hierarchical Subband Coding And Decoding	Chai, B-B.	Granted	09/377384	8/19/1999	6137915	10/24/2000	US
13267	Apparatus And Method For Data Partitioning To Improving Error Resilience	Sodagar, I. Chai, B-B.	Granted	09/377385	8/19/1999	6553147	4/22/2003	US
13267	Apparatus And Method For Data Partitioning To Improving Error Resilience	Sodagar, I. Chai, B-B.	Published	99950216.4	10/5/1999			EP
13267	Apparatus And Method For Data Partitioning To Improving Error Resilience	Sodagar, I. Chai, B-B.	Pending	00-575309	10/5/1999			JP

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13320	Apparatus And Method For Identifying The Location Of A Coding Unit	Chai, B-B.	Granted	09/377381	8/19/1999	6487319	11/28/2002	US
13320	Apparatus And Method For Identifying The Location Of A Coding Unit	Chai, B-B.	Published	99960481.2	11/18/1999			EP
13320	Apparatus And Method For Identifying The Location Of A Coding Unit	Chai, B-B.	Pending	00-583263	11/18/1999			JP
13331	Quantizer Selection Based On Region Complexities Derived Using A Rate Distortion Model	Krishnamurthy, R. Sethuraman, S.	Granted	09/376733	8/17/1999	6539124	3/25/2003	US
13331	Quantizer Selection Based On Region Complexities Derived Using A Rate Distortion Model	Krishnamurthy, R. Sethuraman, S.	Granted	89100056	1/4/2000	NI-144492	11/11/2001	TW
13430	Apparatus And Method For Context-Based Indexing And Retrieval Of Image Sequences	Sethuraman, S. Chalorn, E. Sodagar, I.	Granted	89101505	1/28/2000	NI-142969	10/21/2001	TW

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Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
13430	Apparatus And Method For Context-Based Indexing And Retrieval Of Image Sequences	Sethuraman, S. Chakom, E. Sodagar, I.	Granted	09/490085	1/24/2000	6643387	11/4/2003	US

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